

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **24FP6435C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29712)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FP6435C
Description: 2X4 FLAT PANEL LED

Light Source: -
Ballast/Driver: -

Summary

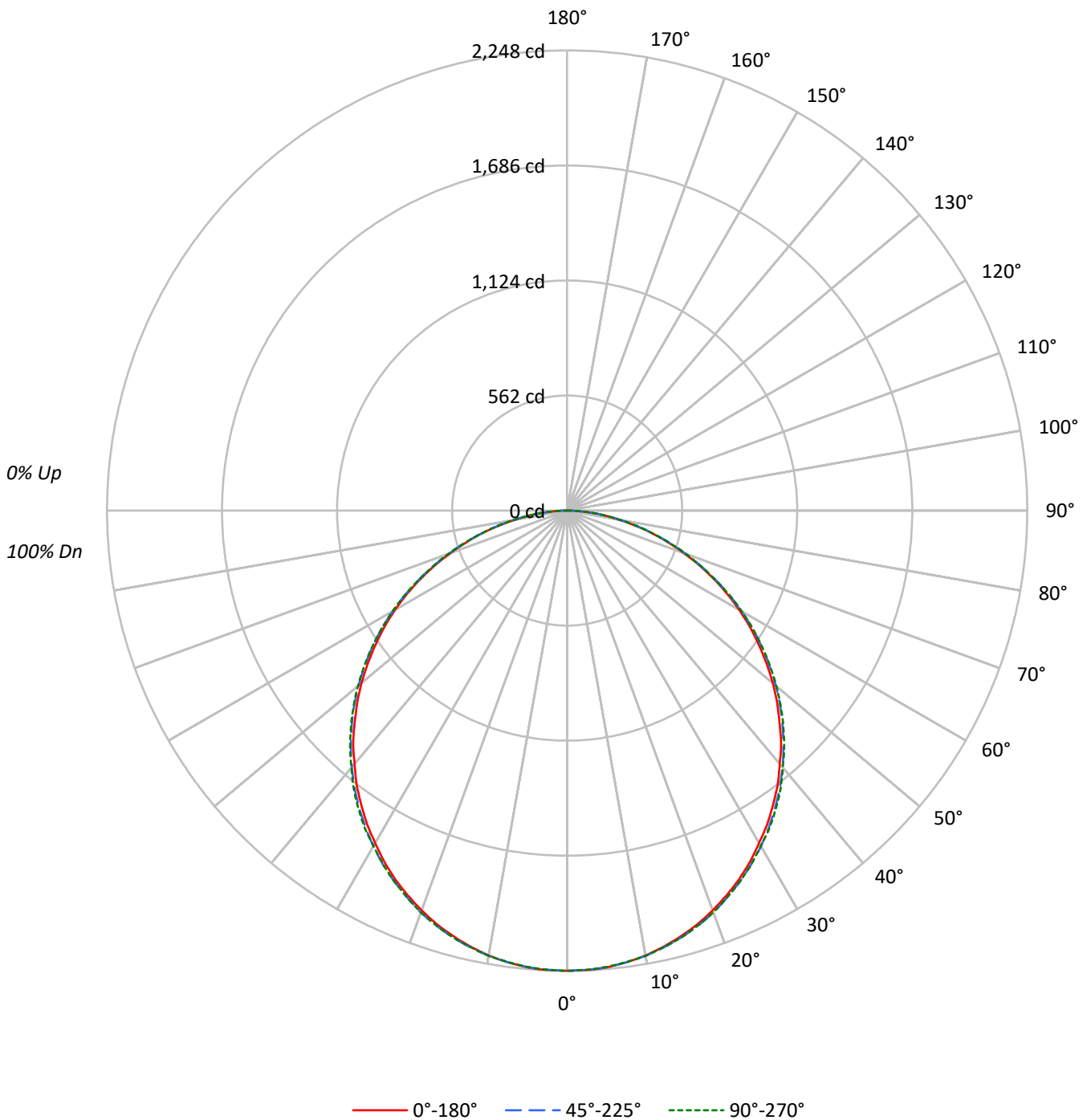
Lumens per Lamp: N/A
Luminaire Lumens: 6402.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3025	3025	3025
5°	3026	3024	3022
10°	3016	3017	3017
15°	2997	3007	3007
20°	2976	2993	2991
25°	2950	2968	2968
30°	2913	2942	2940
35°	2881	2911	2920
40°	2838	2875	2879
45°	2793	2833	2843
50°	2745	2786	2794
55°	2680	2723	2730
60°	2613	2645	2652
65°	2517	2547	2543
70°	2390	2421	2426
75°	2240	2268	2268
80°	2001	2063	2063
85°	1811	1831	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	3.3
10°-20°	608.2	9.5
20°-30°	918.9	14.4
30°-40°	1104.9	17.3
40°-50°	1143.5	17.9
50°-60°	1031.4	16.1
60°-70°	787.2	12.3
70°-80°	459.5	7.2
80°-90°	134.8	2.1
90°-100°	0.9	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1739.8	27.2
0°-40°	2844.7	44.4
0°-60°	5019.5	78.4
0°-90°	6401.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	6402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2240	2238	2239	2238	2238	213
15°	2152	2151	2158	2157	2158	607
25°	1987	1986	1999	1998	1999	915
35°	1754	1755	1772	1772	1778	1097
45°	1468	1471	1489	1489	1494	1133
55°	1142	1142	1161	1157	1164	1022
65°	791	789	800	796	799	782
75°	431	430	436	436	436	454
85°	117	116	119	119	117	125
90°	3	4	8	9	9	8
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2248.1	2248.1	2248.1	2248.1	2248.1
2.5°	2246.8	2245.5	2245.5	2244.1	2245.5
5°	2240.2	2237.6	2238.9	2237.6	2237.6
7.5°	2225.7	2223.1	2225.7	2224.4	2224.4
10°	2207.2	2204.6	2208.6	2207.2	2208.6
12.5°	2182.2	2179.6	2186.2	2184.8	2184.8
15°	2151.9	2150.6	2158.5	2157.2	2158.5
17.5°	2119.0	2116.3	2126.9	2124.2	2125.5
20°	2078.1	2078.1	2090.0	2087.3	2088.7
22.5°	2034.6	2035.9	2045.2	2045.2	2045.2
25°	1987.2	1985.9	1999.0	1997.7	1999.0
27.5°	1934.5	1934.5	1949.0	1947.6	1947.6
30°	1875.2	1879.1	1893.6	1892.3	1892.3
32.5°	1818.5	1818.5	1834.3	1834.3	1839.6
35°	1753.9	1755.3	1772.4	1772.4	1777.7
37.5°	1689.4	1689.4	1706.5	1707.8	1713.1
40°	1615.6	1619.5	1636.7	1636.7	1639.3
42.5°	1547.1	1547.1	1564.2	1565.5	1569.5
45°	1468.0	1470.6	1489.1	1489.1	1494.3
47.5°	1391.6	1392.9	1411.3	1410.0	1415.3
50°	1311.2	1312.5	1330.9	1329.6	1334.9
52.5°	1228.2	1229.5	1246.6	1245.3	1250.6
55°	1142.5	1142.5	1160.9	1157.0	1163.6
57.5°	1058.2	1056.8	1075.3	1070.0	1075.3
60°	971.2	968.6	983.0	980.4	985.7
62.5°	881.6	878.9	893.4	890.8	893.4
65°	790.7	789.3	799.9	795.9	798.6
67.5°	698.4	699.7	707.6	705.0	706.3
70°	607.5	606.2	615.4	618.0	616.7
72.5°	516.6	517.9	525.8	525.8	524.5
75°	430.9	429.6	436.2	436.2	436.2
77.5°	341.3	343.9	349.2	351.8	350.5
80°	258.3	260.9	266.2	267.5	266.2
82.5°	187.1	185.8	189.8	189.8	188.4
85°	117.3	116.0	118.6	118.6	117.3
87.5°	54.0	52.7	55.3	55.3	52.7
90°	2.6	4.0	7.9	9.2	9.2
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)